=> d his

(FILE 'HOME' ENTERED AT 11:53:11 ON 25 OCT 2007)

FILE 'REGISTRY' ENTERED AT 11:53:26 ON 25 OCT 2007

E 20060093687/PN E US20060093687/PN

E 20060093687/PN E US20060093687/PN

FILE 'CA' ENTERED AT 11:56:40 ON 25 OCT 2007
L1 5 S VANILLOID RECEPTOR AND ROFECOXIB

FILE 'REGISTRY' ENTERED AT 12:01:56 ON 25 OCT 2007

SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 12:03:41 ON 25 OCT 2007

L3 1 S 501951-42-4/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 12:04:56 ON 25 OCT 2007

L4 1 S 162011-90-7/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 12:43:56 ON 25 OCT 2007

L5 1 S 501951-42-4/RN L6 1 S 162011-90-7/RN

FILE 'CA' ENTERED AT 12:45:14 ON 25 OCT 2007

L7 6 S L5 L8 1843 S L6

L9 1 S L7 AND L8

=> log hold

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION TULL ESTIMATED COST 31.34 73.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE -4.38 -8.76

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:57:44 ON 25 OCT 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTASJJ1617

PASSWORD:

\* \* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \* \*

SESSION RESUMED IN FILE 'CA' AT 14:58:31 ON 25 OCT 2007 FILE 'CA' ENTERED AT 14:58:31 ON 25 OCT 2007 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY FULL ESTIMATED COST 31.34 73.86 SINCE FILE DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -4.38-8.76

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L2

L3

(FILE 'HOME' ENTERED AT 11:53:11 ON 25 OCT 2007)

FILE 'REGISTRY' ENTERED AT 11:53:26 ON 25 OCT 2007

E 20060093687/PN
E US20060093687/PN
E 20060093687/PN
E US20060093687/PN

FILE 'CA' ENTERED AT 11:56:40 ON 25 OCT 2007
L1 5 S VANILLOID RECEPTOR AND ROFECOXIB

FILE 'REGISTRY' ENTERED AT 12:01:56 ON 25 OCT 2007

1 S 393513-97-8/RN

SET NOTICE 1 DISPLAY

SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 12:03:41 ON 25 OCT 2007 1 S 501951-42-4/RN

SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 12:04:56 ON 25 OCT 2007 L4 1 S 162011-90-7/RN

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SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 12:43:56 ON 25 OCT 2007

L5 1 S 501951-42-4/RN L6 1 S 162011-90-7/RN

FILE 'CA' ENTERED AT 12:45:14 ON 25 OCT 2007

L7 6 S L5 L8 1843 S L6 L9 1 S L7 AND L8

L3 L/ AND Lo

=> d 15

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 501951-42-4 REGISTRY

ED Entered STN: 07 Apr 2003

CN Urea, N-(2-bromophenyl)-N'-[(3R)-1-[5-(trifluoromethyl)-2-pyridinyl]-3-pyrrolidinyl]- (CA INDEX NAME)
OTHER NAMES:

CN SB 705498

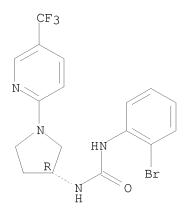
FS STEREOSEARCH

MF C17 H16 Br F3 N4 O

SR CA

LC STN Files: CA, CAPLUS, CASREACT, EMBASE, IMSDRUGNEWS, IMSRESEARCH, PROUSDDR, SYNTHLINE, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 17 1-6 ibib abs kwic

L7 ANSWER 1 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 147:226990 CA <<LOGINID::20071025>>

TITLE: Characterization of SB-705498, a potent and selective

vanilloid receptor-1 (VR1/TRPV1) antagonist that inhibits the capsaicin-, acid-, and heat-mediated

activation of the receptor

AUTHOR(S): Gunthorpe, Martin J.; Hannan, Sara Luis; Smart,

Darren; Jerman, Jeffrey C.; Arpino, Sandra; Smith, Graham D.; Brough, Stephen; Wright, Jim; Egerton, Julie; Lappin, Sarah C.; Holland, Vicky A.; Winborn, Kim; Thompson, Mervyn; Rami, Harshad K.; Randall,

Andrew; Davis, John B.

CORPORATE SOURCE: Neurology and Gastrointestinal Centre of Excellence

for Drug Discovery, GlaxoSmithKline, Harlow, Essex, UK Journal of Pharmacology and Experimental Therapeutics

SOURCE: Journal of Pharmacology and Experimental '

(2007), 321(3), 1183-1192 CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: American Society for Pharmacology and Experimental

Therapeutics

DOCUMENT TYPE: Journal LANGUAGE: English

AB Vanilloid receptor-1 (TRPV1) is a nonselective cation channel, predominantly expressed by sensory neurons, which plays a key role in the detection of noxious painful stimuli such as capsaicin, acid, and heat. TRPV1 antagonists may represent novel therapeutic agents for the treatment of a range of conditions including chronic pain, migraine, and gastrointestinal disorders. Here we describe the in vitro pharmacol. of

N-(2-bromophenyl)-N'-[((R)-1-(5-trifluoromethyl-2-pyridyl)pyrrolidin-3-yl)]urea (SB-705498), a novel TRPV1 antagonist identified by lead optimization of N-(2-bromophenyl)-N'-{2-[ethyl(3methylphenyl)amino]ethyl}urea (SB-452533), which has now entered clin. trials. Using a Ca2+-based fluorometric imaging plate reader (FLIPR) assay, SB-705498 was shown to be a potent competitive antagonist of the capsaicin-mediated activation of the human TRPV1 receptor (pKi = 7.6) with activity at rat (pKi = 7.5) and quinea pig (pKi = 7.3) orthologs. Whole-cell patch-clamp electrophysiol. was used to confirm and extend these findings, demonstrating that SB-705498 can potently inhibit the multiple modes of receptor activation that may be relevant to the pathophysiol. role of TRPV1 in vivo: SB-705498 caused rapid and reversible inhibition of the capsaicin (IC50 = 3 nM)-, acid (pH 5.3)-, or heat  $(50^{\circ}; \text{ IC50} = 6 \text{ nM})$ -mediated activation of human TRPV1 (at -70 mV). Interestingly, SB-705498 also showed a degree of voltage dependence, suggesting an effective enhancement of antagonist action at neg. potentials such as those that might be encountered in neurons in vivo. The selectivity of SB-705498 was defined by broad receptor profiling and other cellular assays in which it showed little or no activity vs. a wide range of ion channels, receptors, and enzymes. SB-705498 therefore represents a potent and selective multimodal TRPV1 antagonist, a pharmacol. profile that has contributed to its definition as a suitable drug candidate for clin. development.

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 459429-39-1D, SB-452533, derivative 501951-42-4, SB 705498 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(characterization of SB-705498, a potent and selective vanilloid receptor-1 (VR1/TRPV1) antagonist that inhibits the capsaicin-, acid-, and heat-mediated activation of receptor)

L7 ANSWER 2 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 145:76019 CA <<LOGINID::20071025>>

TITLE: Discovery of SB-705498: A potent, selective and orally

bioavailable TRPV1 antagonist suitable for clinical

development

AUTHOR(S): Rami, Harshad K.; Thompson, Mervyn; Stemp, Geoffrey;

Fell, Steve; Jerman, Jeffrey C.; Stevens, Alexander J.; Smart, Darren; Sargent, Becky; Sanderson, Dominic; Randall, Andrew D.; Gunthorpe, Martin J.; Davis, John

В.

CORPORATE SOURCE: Neurology and GI CEDD, GlaxoSmithKline, Essex, CM19

5AW, UK

SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),

16(12), 3287-3291

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:76019

GΙ

AB Small mol. antagonists of the vanilloid receptor TRPV1 (also known as VR1) are disclosed. Pyrrolidinyl ureas such as (I) and (II) (SB-705498) emerged as lead compds. following optimization of the previously described urea SB-452533. Pharmacol. studies using electrophysiol. and FLIPR-Ca2+-based assays showed that compds. such as I and II were potent antagonists vs. the multiple chemical and phys. modes of TRPV1 activation (namely capsaicin, acid and noxious heat). Furthermore, II possessed suitable lead compound properties to enable progression of this compound into in vivo studies and subsequently clin. development.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 501951-42-4P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(SB-705498, a potent, selective and orally bioavailable TRPV1 antagonist suitable for clin. development)

L7 ANSWER 3 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 143:242009 CA <<LOGINID::20071025>>

TITLE: Novel therapy for renal disorders with vanilloid

receptor antagonists

INVENTOR(S): Kikkawa, Hideo; Kinoshita, Mine; Mizukami, Akiko;

Ozawa, Kazunori

PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2005079192 WO 2005079192	A2 2005090 A3 2005112		20040915
CN, CO, CR, GE, GH, GM, LK, LR, LS, NO, NZ, OM,	CU, CZ, DE, DI HR, HU, ID, II LT, LU, LV, MI PG, PH, PL, PT	Z, BA, BB, BG, BR, BW, K, DM, DZ, EC, EE, EG, L, IN, IS, JP, KE, KG, A, MD, MG, MK, MN, MW, T, RO, RU, SC, SD, SE, A, UG, US, UZ, VC, VN,	ES, FI, GB, GD, KP, KR, KZ, LC, MX, MZ, NA, NI, SG, SK, SL, SY,

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRIORITY APPLN. INFO.:
                                            US 2003-506209P
                                                               P 20030926
     This invention relates to a novel treatment and in particular to a method
     for the treatment and/or prophylaxis of renal dysfunction (or disorders)
     associated with diseases, such as, diabetic nephropathy, glomerular
     nephritis, nephrosis, congestive heart failure, as well as renal
     dysfunctions (.apprx.r disorders) induced by drugs, including, but not
     limited, to antineoplastic agents, antibiotics, and immunosuppressants.
ΙT
     501951-42-4
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (therapy for renal disorders with vanilloid receptor antagonists)
     ANSWER 4 OF 6 CA COPYRIGHT 2007 ACS on STN
                         141:99723 CA <<LOGINID::20071025>>
ACCESSION NUMBER:
                         Combinations of a vanilloid antagonist and an NSAID
TITLE:
                         for the treatment of pain
INVENTOR(S):
                         Bountra, Charanjit; Davis, John Beresford; Rami,
                         Harshad Kantilal; Thompson, Mervyn
PATENT ASSIGNEE(S):
                         Glaxo Group Limited, UK
                         PCT Int. Appl., 58 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                       KIND DATE APPLICATION NO. DATE
     PATENT NO.
                        ____
                                _____
                                           _____
     WO 2004056394
                        A1 20040708 WO 2003-EP14776
                                                                  20031217
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             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
             TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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                                20040714 AU 2003-294941
20050914 EP 2003-785923
                                                                   20031217
     AU 2003294941
                         Α1
     EP 1572237
                         Α1
                                                                   20031217
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                            JP 2004-561422
                                                                    20031217
     JP 2006512345
                         Τ
                                20060413
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AB A method of treating conditions associated with pain and alleviating the symptoms associated therewith comprises administering to a mammal, including man, a vanilloid VR-1 antagonist or a pharmaceutically acceptable derivative thereof and an NSAID or a pharmaceutically acceptable derivative thereof, wherein said VR-1 antagonist or said NSAID may optionally be administered as a sub-maximal amount For example, a VR-1 antagonist, N-(2-bromophenyl)-N'-[((R)-1-(5-trifluoromethyl-2-pyridyl)pyrrolidin-3-yl)]urea (I) (preparation given), at oral dose 1 mg/kg and rofecoxib at oral dose of 1.5 mg/kg reversed a FCA-induced mech. hypersensitivity in guinea

20060504

US 2005-540100

GB 2002-29808

WO 2003-EP14776

20050620

A 20021220

W 20031217

US 2006093687

PRIORITY APPLN. INFO.:

Α1

pigs by 32.5% and 30.6%, resp. However, combination of I and rofecoxib reversed the mech. hypersensitivity by 51.8%.

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 393513-97-8P 501951-42-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(combinations of vanilloid antagonist and NSAID for treatment of pain)

L7 ANSWER 5 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 140:264523 CA <<LOGINID::20071025>>

CODEN: PIXXD2

TITLE: Use of vanilloid receptor antagonists for the

treatment of pain

INVENTOR(S): Davis, John Beresford; Winchester, Wendy Joyce

PATENT ASSIGNEE(S): Glaxo Group Limited, UK SOURCE: PCT Int. Appl., 17 pp.

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						D	DATE			APPL	ICAT		DATE				
	WO	2004					1	WO 2	 003-1	20030910								
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			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,
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			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NΙ,	NO,	NZ,	OM,
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			KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG
	ΑU	U 2003264297					A1 20040430				AU 2	003-	2642	20030910				
	EΡ	EP 1545522					A1 20050629				EP 2	003-	7950	20030910				
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	US 2005239846										US 2	005-	5274	20050311				
PRIC	PRIORITY APPLN. INFO.:			.:					(	GB 2	002-	2115	i	A 20020912				
											WO 2	003-1	EP10:	Ī	W 20030910			

AB The invention discloses a method for the treatment and/or prophylaxis of pelvic pain, renal colic, biliary colic, functional dyspepsia, Barrett's metaplasia, dysphagia, and pain associated therewith, in humans or non-human mammals, which comprises the administration of an effective, non-toxic and pharmaceutically acceptable amount of a vanilloid receptor antagonist.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 501951-42-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vanilloid receptor antagonists for treatment of pain)

L7 ANSWER 6 OF 6 CA COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 138:238029 CA <<LOGINID::20071025>>

TITLE: Preparation of ureas as vanilloid receptor (VR1)

antagonists

INVENTOR(S): Rami, Harshad Kantilal; Thompson, Mervyn; Wyman, Paul

Adrian

PATENT ASSIGNEE(S): Smithkline Beecham P.L.C., UK

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO.					KIND DATE			APPLICATION NO.							DATE			
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	2458			A1 20030320					CA	2002		20020913							
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	1425277				A2 20040609					EP 2002-765023						20020913			
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HU	CN 1553905 HU 2004001923				A2 20050128					HU	2004	-1923		20020913 20020913					
JP	2005	5040	/4		1 20050210														
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	ZA 2004001186											20040213							
	IN 2004DN00473				A 20050			0401		IN	2004	-DN 4 7	3		20040227				
	NO 2004001003			A	A 2004060					2004									
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OTHER SOURCE(S): MARPAT 138:238029

GΙ

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(Uses)

The title compds. [I; P, P1 = (hetero)aryl; R1, R2 = H, halo, alkyl, etc.; n = 0-3; p, q = 0-4; r = 1-3; s = 0-2], useful in medicine for the treatment and/or prophylaxis of pain, were prepared Thus, reacting 2-bromophenyl isocyanate with (R)-1-(5-trifluoromethylpyridin-2-yl)-pyrrolidin-3-ylamine [claimed to be prepared starting from 2-chloro-5-trifluoromethylpyridine and (3R)-3-(tert-butoxycarbonylamino)pyrrolidine; no data given] afforded (3R)-II. All compds., tested for vanilloid receptor (VR1) antagonist activity, had pKb > 6, preferred compds. having a pKb > 7.0.

501951-45-7P ΙT 501951-44-6P 501951-42-4P 501951-43-5P 501951-50-4P 501951-46-8P 501951-47-9P 501951-48-0P 501951-49-1P 501951-51-5P 501951-52-6P 501951-53-7P 501951-54-8P 501951-55-9P 501951-56-0P 501951-57-1P 501951-58-2P 501951-59-3P 501951-60-6P 501951-61-7P 501951-62-8P 501951-63-9P 501951-64-0P 501951-65-1P 501951-66-2P 501951-67-3P 501951-68-4P 501951-69-5P 501951-70-8P 501951-71-9P 501951-72-0P 501951-73-1P 501951-74-2P 501951-75-3P 501951-76-4P 501951-77-5P 501951-78-6P 501951-79-7P 501951-80-0P 501951-81-1P 501951-82-2P 501951-83-3P 501951-84-4P 501951-85-5P 501951-86-6P 501951-87-7P 501951-88-8P 501951-89-9P 501951-90-2P 501951-91-3P 501951-92-4P 501951-93-5P 501951-94-6P 501951-95-7P 501951-96-8P 501951-97-9P 501951-98-0P 501951-99-1P 501952-00-7P 501952-01-8P 501952-02-9P 501952-03-0P 501952-04-1P 501952-05-2P 501952-06-3P 501952-07-4P 501952-08-5P 501952-09-6P 501952-10-9P 501952-12-1P 501952-13-2P 501952-14-3P 501952-11-0P 501952-15-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(preparation of ureas as vanilloid receptor (VR1) antagonists for treating